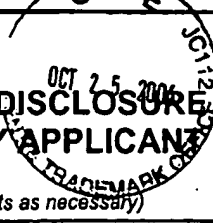




Substitute for form 1449A/PTO		OCT 25 2004		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/087,153
				Filing Date	February 28, 2002
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	3732
				Examiner Name	MANAHAN, TODD E.
Sheet	1	of	10	Attorney Docket Number	018563-002910US

U.S. PATENT DOCUMENTS+					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	AA	2,467,432	04-19-1949	Kesling	
	AB	3,660,900	05-09-1972	Andrews	
	AC	3,860,803	01-14-1975	Levine	
	AD	3,916,526	11-04-1975	Schudy	
	AE	3,950,851	04-20-1976	Bergersen	
	AF	4,014,096	03-29-1977	Oellinger	
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	AH	4,324,546	04-13-1982	Heitlinger et al.	
	AI	4,348,178	09-07-1982	Kurz	
	AJ	4,478,580	10-23-1984	Barrut	
	AK	4,504,225	03-12-1985	Yoshii	
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	AN	4,611,288	09-09-1986	Duret et al.	
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	AR	4,755,139	07-05-1988	Abbatte et al.	
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	AT	4,793,803	12-27-1988	Martz	
	AU	4,798,534	01-17-1989	Breads	
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	AW	4,850,864	07-25-1989	Diamond	
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	AY	4,936,862	06-26-1990	Walker et al.	
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	BA	4,964,770	10-23-1990	Steinbichler et al.	
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	BH	5,059,118	10-22-1991	Breads et al.	
	BI	5,100,316	03-31-1992	Wildman	
	BJ	5,121,333	06-09-1992	Riley et al.	
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	BN	5,139,419	08-18-1992	Andreiko et al.	
	BO	5,184,306	02-02-1993	Erdman et al.	
Examiner Signature	Todd E. Manahan Primary Examiner		Date Considered	12-6-04	

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		Application Number	10/087,153
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		First Named Inventor	PAVLOVSKAIA, ELENA
		Art Unit	3732
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Sheet	2	of	10
		Attorney Docket Number	018563-002910US

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 	BP	5,186,623	02-16-1993	Breads et al.	
	BQ	5,257,203	10-26-1993	Riley et al.	
	BR	5,273,429	12-28-1993	Rekow et al.	
	BS	5,278,756	01-11-1994	Lemchen et al.	
	BT	5,338,198	08-16-1994	Wu et al.	
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	BV	5,342,202	08-23-1994	Deshayes	
	BW	5,368,478	11-29-1994	Andreiko et al.	
	BX	5,382,164	01-17-1995	Stem	
	BY	5,395,238	03-07-1995	Andreiko et al.	
	BZ	5,431,562	11-11-1995	Andreiko et al.	
	CA	5,440,496	08-08-1995	Andersson et al.	
	CB	5,447,432	09-05-1995	Andersson et al.	
	CC	5,452,219	09-19-1995	Dehoff et al.	
	CD	5,454,717	10-03-1995	Andreiko et al.	
	CE	5,456,600	10-10-1995	Andreiko et al.	
	CF	5,474,448	12-12-1995	Andreiko et al.	
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	CH	5,533,895	07-09-1996	Andreiko et al.	
	CI	5,542,842	08-06-1996	Andreiko et al.	
	CJ	5,549,476	08-27-1996	Stem	
	CK	5,587,912	12-24-1996	Andersson et al.	
	CL	5,605,459	02-25-1997	Kuroda et al.	
	CM	5,607,305	03-04-1997	Andersson et al.	
	CN	5,645,421	07-08-1997	Slootsky	
	CO	5,655,653	08-12-1997	Chester	
	CP	5,683,243	11-04-1997	Andreiko et al.	
	CQ	5,733,126	03-31-1998	Andersson et al.	
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	CS	5,975,893	11-02-1999	Chishtil et al.	

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	CV	EP	376,873	A2	07-04-1990	Shafir		
	CW	EP	490,848	B1	06-17-1992	Andersson et al.		
	CX	EP	544,600	A1	06-12-1998	Andersson et al.		

Examiner Signature

Date Considered

12-6-04

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		Filing Date		February 28, 2002		
		First Named Inventor		PAVLOVSKAIA, ELENA		
		Art Unit		3732		
Examiner Name		MANAHAN, TODD E.				
Sheet	3	of	10	Attorney Docket Number		018563-002910US

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	CY	EP	731,073	B1	09-18-1996	Andersson et al.		
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	DE	WO	94/10,935	A1	05-26-1994	Andreiko et al.		<input type="checkbox"/>
	DF	WO	98/44,865	A1	10-15-1998	Andersson		<input type="checkbox"/>
	DG	WO	98/58,596	A1	12-30-1998	Chishti et al.		<input type="checkbox"/>

Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12 - 6 - 04
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		Art Unit		3732		
		Examiner Name		MANAHAN, TODD E.		
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NON PATENT LITERATURE DOCUMENTS			
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	DH	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," JCO (July 1990), pp. 402-407.	
	DI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-964.	
	DJ	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , vol. 102 (1979), p. 187-191.	
	DK	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral Facial Structures," Program and Abstracts of Papers, Feb. 1975, <i>Journal of Dental Research</i> , Vol. 54, IADR Abstracts 1975, 2 pages total.	
	DL	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607, 1980, 2 pages total.	
	DM	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 193.	
	DN	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontologica Scandinavica</i> , vol. 47 (1989), pp. 279-286.	
	DO	BAUMRIND et al., "A stereophotogrammetric system for the detection of prosthesis loosening in total hip arthroplasty, Applications of Human Biostereometrics (NATO)," <i>Proceedings of the Society of Photo-Optical Instrumentation Engineers</i> , Vol. 166, July 9-13, 1978, pp. 112-123.	
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	DQ	BAUMRIND et al., "Seminars in Orthodontics," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), p. 222.	
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	DS	BAUMRIND, "Integrated Three Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 223-232.	
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	DU	BERNARD et al., "Computerized diagnosis in Orthodontics for Epidemiological Studies" (progress report), Abstracts of Papers, <i>Journal of Dental Research</i> , Vol. 71, Special Issue March 1-14, 1992, pp. 28-36.	
	DV	BHATIA et al., "A Computer Aided Design for Orthognathic Surgery," <i>British Journal of Oral and Maxillofacial Surgery</i> , Vol. 22 (1984), pp. 237-253.	
	DW	BIGGERSTAFF et al., "Computerized analysis of occlusion in the postcanine dentition," <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	

Examiner Signature	Todd E. Manahan	Date Considered	12-6-04
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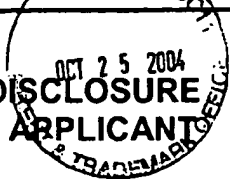
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			Filing Date	February 28, 2002	
			First Named Inventor	PAVLOVSKAIA, ELENA	
			Art Unit	3732	
			Examiner Name	MANAHAN, TODD E.	
Sheet	5	of	10	Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS			
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	DX	DIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," The Angle Orthodontist, Vol. 40, No. 4 (Jan. 1970), pp. 28-36.	
	DY	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," Journal of Dental Research, Vol. 64:Special Issue Abstracts, IADR/AADR Abstracts 1985, 1 page total.	
	DZ	BROOK et al., "An Image Analysis System for the Determination of Teeth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter, Abstract of Papers, 1986, Dept. of Children's Dentistry and Orthodontics, J Dent Res., March 1986, pp. 428-431.	
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	EB	BURSTONE et al., "Precision adjustment of the transpalatal lingual arch: Computer arch form predetermination," Am. Journal of Orthodontics, Vol. 79, No. 2 (Feb. 1981), pp. 145-153.	
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	EF	GOTTINGHAM, "Gnathologic clear plastic positioner," Am. J. Orthod., 55:23-31, 1969.	
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	EH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" Canadian Dental Journal, Vol. 57, No. 2 (Feb. 1991), pp. 121-123.	
	EI	GROOKS, "CAD/CAM Comes to USC," USC Dentistry, (Spring 1990) pp. 14-17.	
	EJ	URETON, "Correcting malaligned mandibular incisors with removable retainers," J. Clin. Orthod., 30:390-395, 1996.	
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	EL	GUTTING et al., "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," Plastic and Reconstructive Surgery, Vol. 77, No. 6 (June 1986), pp. 877-885.	
	EM	DCS Dental AG, "The CAD/CAM DCS Titan System for Production of Crowns/Bridges" D60-Production AG, Jan. 1992, pp. 4-7.	

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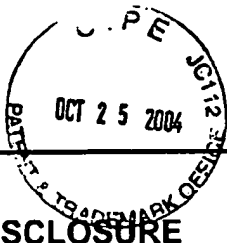
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	EN	DEFRANGO et al., "Three-Dimensional Large-Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-804.	
	EO	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 3 pages total.	
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	EQ	DURET et al., "CAD/CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.	
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	EV	ELSASSER, "Some observations on the history and uses of the Kesting-positioner" <i>Am. J. Orthod.</i> , 36:368-374, 1950.	
	EW	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.	
	EX	FELTON et al., "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 478-483.	
	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," <i>Abstract of Papers, Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.	
	EZ	GM-ALLDENT Deutschland, "Des-DUX-System: Die Technik" 4 pages total.	
	FA	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," <i>Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery</i> , AACMS Sept. 43, 1990, 3 pages total.	
	FB	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.	
	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," "Automated Identification of Landmarks in Cephalometric Radiographs," <i>Abstracts of Papers, Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.	

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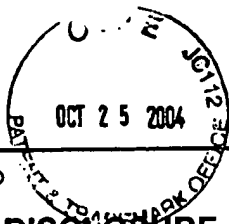
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	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), Informationen, (March 1994), pp. 875-896.	
	FE	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," AAOMS 1999, p. 96.	
	FF	Inside the ADA, Journal Of The American Dental Assoc., Vol. 118 (March 1988) 8 pages total.	
	FG	JCO Interviews, "Craig Andreiko, DDS, MS on the Eitan and Orthos Systems", JCO, (Aug. 1994), pp. 469-468.	
	FH	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," JCO, (Dec. 1983), pp. 810-831.	
	FI	JERROLD, "The problem, electronic data transmission and the law," AJO-DO, (Apr. 1988), pp. 478-479.	
	FJ	JONES et al., "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," British Journal of Orthodontics, Vol. 16 (1989), pp. 85-93.	
	FK	KAMADA et al., "Case reports on tooth positioners using LTV vinyl silicone rubber" J. Nihon University School of Dentistry, 26(1): 11-29, 1984.	
	FL	KAMADA et al., "Construction of tooth positioners with LTV vinyl silicone rubber and some case reports" J. Nihon University School of Dentistry, 24(1): 1-27, 1982.	
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Examiner Signature	Todd E. Manahan Primary Examiner	Date Considered	12-6-04
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Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/087,153	
			Filing Date	February 28, 2002	
			First Named Inventor	PAVLOVSKAIA, ELENA	
			Art Unit	3732	
			Examiner Name	MANAHAN, TODD E.	
Sheet	8	of	10	Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	FT	MENAMARA et al., "Orthodontic and Orthopedic Treatment in the Mixed Dentition, Needham Press, January 1993, pp. 347-353.		
	FU	MENAMARA et al., "Invisible Retainers", J. Clinical Orthodontics, (August 1985) pp. 570-578.		
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	FZ	NASH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment," Dentistry Today, (October 1990), pp. 20, 22-23, 64.		
	GA	NISHIYAMA et al., "A new construction of tooth repositioner by LTV vinyl silicone rubber" J. Nihon University School of Dentistry, 19(2):93-102, 1977.		
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	GC	PINKHAM, "Inventor's CAD/CAM may transform dentistry," Dentist, Sept. 1990, 3 pages total.		
	GD	RONITZ, Invisible Retainers, 69 Am. J. Orthodontics, March 1971, pp. 268-272.		
	GE	Procera Research Projects, PROCERA Research Projects 1993 -- Abstract Collection, 1993, pp. 3-28.		
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	GI	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" Journal of the American Dental Assoc., Vol. 122 (1991), pp. 42-48.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 9 of 10

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Art Unit	3732
Examiner Name	MANAHAN, TODD E.
Attorney Docket Number	018563-002910US

NON PATENT LITERATURE DOCUMENTS

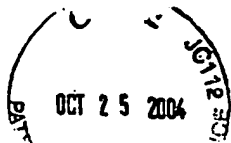
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	GJ	REKOW, "Feasibility of an Automated System for Production of Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.	
	GK	RICHMOND et al., Research Reports, "The development of a 3D Cast Analysis System," British Journal of Orthodontics, pp. 53-54.	
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	GN	SAKUDA et al., "Integrated information processing system in clinical orthodontics: An approach with use of a computer network system," Am. J. Orthod. Dentofac. Orthop., Vol. 101 No. 3 (March 1992), pp. 210-220.	
	GO	SCHILLHAS et al., "Three-Dimensional Computer Tomography in Maxillofacial Surgical Planning," Arch. Otolaryngol. Head Neck Surg., Vol. 114 (April 1988), pp. 438-442.	
	GP	SEGU et al., "Computer-aided Cefalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), Fortsch. Kieferorthop. 44, 370-376 (Nr. 3), 1983.	
	GQ	SHILLIDAY, "Minimizing finishing problems with the mini-positioner," Am. J. Orthod. 59:588-599, 1971.	
	GR	Siemens, "CEREO - Computer Reconstruction," High Tech in der Zahnmedizin, 14 page total.	
	GS	Sirona Dental Systeme GmbH, CEREO 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 112 pages total.	
	GT	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), Dtsch. Zahnärztl. Z. 45, 314-322, 1990.	
	GU	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 21 pages total.	
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	GW	U.S. Provisional Patent Application No. 60/050242, filed on June 20, 1997, 41 pages total.	
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	GY	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.	

Examiner
SignatureTodd E. Manahan
Primary ExaminerDate
Considered

12-6-01

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	GZ	VAN DER ZEL, "Ceramic fused to metal Restorations with a New CAD/CAM System," Quintessence International, vol. 24(11) (1993), pp. 769-770.		
	HA	VARADY et al., "Reverse Engineering of Geometric Models—An Introduction," May 13, 1996, pp. 4-28.		
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	HE	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," Journal of Dental Practice Admin., Jan./March 1987, pp. 2-5.		
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	HG	WISHAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery, AAOMS, Sept. 19, 1990, p. 5.		
	HH	YAMAMOTO et al., "Three Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," Annual Int'l Conf. of IEEE Engineering in Medicine and Biology Society, Vol. 12, No. 3, pp. 2051-2053, 1990.		
	HI	YAMAMOTO et al., "Optical measurement of dental cast profile and application to analysis of three-dimensional tooth movement in orthodontics," Frontiers in Med. and Biol. Eng'g, Vol. 1, No. 2 (1988), pp. 119-130.		

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